REMARKS

The specification has been amended and the claims and Abstract have been replaced to place the application in better form for examination. Applicant notes that the claims in the original application were improperly numbered, resulting in two claims having the claim number "11". By cancelling claims 1-12, Applicant intends to cancel all of the original claims, and replace those claims with new claims 13-24. Favorable consideration is respectfully solicited.

Respectfully submitted,

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Date: December 21, 2001

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Marked Up Copy of Amendments
to the Specification Section Headings

Page 1, line 1, delete
[Applicant: Telefonaktiebolaget LM Ericsson]

Page 1, line 2, delete
[Title]

Page 1, the section heading at line 5
[Field of the Invention] --Background--

Page 1, the section heading at line 12
[Background of the Invention]

Page 2, the paragraph beginning at line 28,

[US-A- 4 490 584] U.S. Patent No. 4,490,584 discloses a telephone system having a remote microphone and an associated transmitter, and a network located receiver for signals outgoing over the telephone network and including a local loudspeaker to broadcast signals incoming over the telephone network, wherein the loudspeaker audible level is controlled to vary with the level of the received microphone signal. The level of the loudspeaker signal is increased when the received microphone signal increases, and vice versa, allowing the user to control the loudspeaker level by adjusting mouth-to-microphone distance or speech loudness. This solution to control the loudspeaker level is, however, not applicable or useful in a mobile phone in order to provide an automatic adjustment of the sound level in the loudspeaker. A high speech loudness or short mouth-to-microphone distance increases the loudspeaker audible level, which can impair the hearing of a person using such a phone. Another reason for not using this proposed solution is that the loudspeaker level only responds to the received microphone signal.

Page 3, the section heading at line 22
[Summary of the Invention] --Summary--

Page 5, the section heading at line 4
[Detailed description of the Invention] --Detailed Description--

Page 10, the section heading at line 1
[Claims] --What is claimed is:--

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Marked Up Copy of Amendments
to the Abstract

A proximity detector for use in a mobile telephone [apparatus, wherein the phone has] having at least a microphone [(1)] and a loudspeaker [(5)] operatively connected to a signal [processing means (2,3,4)] processor is presented. The proximity detector [comprises] includes data processing and control [means (6) including means] modules having a module for controlling the signal [processing means (3,4) in order to activate] processor for activating the loudspeaker [for reproducing] to reproduce an acoustic control signal[, correlating means for correlating the] . A correlator correlates a control signal received directly [(D_{direct})] by the microphone [(1)] and [the] a control signal being reflected [(D_1+D_2)] from a user [(13)] of the [phone (9)] telephone and then received by the microphone [(1) for determining] to determine the distance [($D_1 \approx D_2$)] between the [phone (9)] telephone and the user [(13), and] . A signal level [control means for controlling] controller controls the signal [processing means (3,4) in order to varying] processor to vary the signal level of an audible signal reproduced by the loudspeaker [(5)] proportionally to the determined distance [($D_1 \approx D_2$)] between the [phone (9)] telephone and the user [(13)].

[To be published with FIG 2A]